

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 03/03803

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 G09G3/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G09G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 923 067 A (SEIKO EPSON CORP) 16 June 1999 (1999-06-16) abstract paragraph [0017] - paragraph [0039]; figures 3,5,6,8	1,2,18, 19
P,X A	----- EP 1 315 141 A (SAMSUNG ELECTRO MECH ;SAMSUNG ELECTRONICS CO LTD (KR)) 28 May 2003 (2003-05-28) abstract the whole document	1,2,18, 19 3-7, 20-23
P,X A	----- US 2003/052841 A1 (TANAKA YOSHITO ET AL) 20 March 2003 (2003-03-20) abstract the whole document -----	1,2,18, 19 3-7, 20-23



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

*** Special categories of cited documents :**

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

9 December 2003

Date of mailing of the international search report

24.02.2004

Name and mailing address of the ISA

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national application No.
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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-7, 15-23, 27-29

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-7,15-23,27-29

The first invention is defined in the set of device claims 1 to 7 and 15 to 17 and the set of method claims 18 to 23 and 27 to 29. It concerns an active matrix display panel where the display element is driven by a current. The problem to be solved by this first invention is to minimize the crosstalk between pixels according to the current drawn by those pixels when displaying a picture, therefore means for determining the overall brightness level of the displayed picture and means for controlling the driving current through the pixels are implemented.

2. claims: 8,24

The second invention is defined in the device claim 8 and method claim 24. The second problem to be solved by this second invention is also to minimize the crosstalk between pixels according to the current drawn by those pixels when displaying a picture. However, the technical solution for controlling the driving current is a different technical solution as the one implemented in the first previous invention.

3. claims: 9-14,25,26

The third invention is defined in the set of device claims 9 to 14 and the set of method claims 25, 26. The third problem to be solved by this third invention is also to minimize the crosstalk between pixels according to the current drawn by those pixels when displaying a picture. However, the technical solution for controlling the driving current is a different technical solution as the one implemented in the two previous first and second inventions.

INTERNATIONAL SEARCH REPORT

Information on patent family members

Int. Patent Application No

PCT/IB 03/03803

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0923067	A	16-06-1999	EP 0923067 A1	16-06-1999
			US 2002180721 A1	05-12-2002
			WO 9840871 A1	17-09-1998
			KR 2000010923 A	25-02-2000
			TW 397965 B	11-07-2000
			US 2003063081 A1	03-04-2003

EP 1315141	A	28-05-2003	KR 2003035524 A	09-05-2003
			CN 1416267 A	07-05-2003
			EP 1315141 A2	28-05-2003
			JP 2003195839 A	09-07-2003
			US 2003132905 A1	17-07-2003

US 2003052841	A1	20-03-2003	JP 2003029704 A	31-01-2003
